

8 FEB 1977

MEMORANDUM FOR THE RECORD

SUBJECT: Project SAFE Communications Support System - Data Grid

1. On 28 January 1977 a meeting was held with members of the Project SAFE staff to discuss aspects of the SAFE communications system and in particular, the Data Grid. Attending were:

- STATINTL
- a. [redacted] DC/SPS/ODP
 - b. [redacted] SPS/Communications
 - c. [redacted] SPS/Facilities
 - d. [redacted] OL Project SAFE Coordinator

2. At this time the communications group is evaluating ongoing development efforts by industry and Government to be aware of current technology. Three primary types of Data Grid being considered are:

- a. Communication buss
- b. Multiplex system (coaxial cable)
- c. Twisted-pair cable

The advantages vary with each. However, from a facilities aspect, the distinct disadvantage lies with the twisted-pair system and its need for large conduits in an already crowded electrical riser system of the Headquarters Building.

3. The decision of what type of transmission system will be used is to be made after selection of the SAFE main frame computer and terminal console. Cost and technology will be the deciding factors after the technical security parameters are satisfied. At this point, Project SAFE Commo personnel are favoring the wide-band system using a communication STATINTL buss. This buss will consist of a 1- to 2-inch diameter cable encircling the Headquarters Building floors with connection boxes as required for terminals. [redacted]